

#4

Declaration for Patent Application

Docket Number: **1875.0560002**



As below named inventor, I hereby declare that:

My residence, mailing address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter that is claimed and for which a patent is sought on the invention entitled: **Timing Recovery and Phase Tracking System and Method**,

the specification of which is attached hereto unless the following box is checked:

- ☒ was filed on **April 30, 2001**;
as United States Application Number or PCT International Application Number **09/844,296**; and
was amended on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information that is material to patentability as defined in 37 C.F.R. § 1.56, including for continuation-in-part applications, material information that became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or (f), or § 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or § 365(a) of any PCT international application, which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

Priority Claimed

(Application No.)

(Country)

(Day/Month/Year Filed)

☐ Yes ☐ No

(Application No.)

(Country)

(Day/Month/Year Filed)

☐ Yes ☐ No


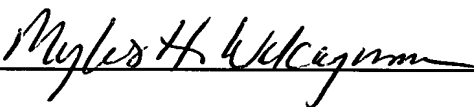

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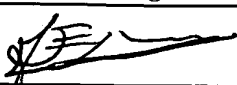
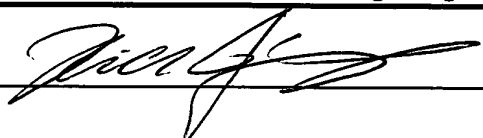
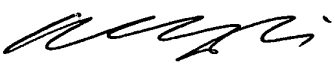
STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
1100 New York Avenue, N.W.
Suite 600
Washington, D.C. 20005-3934



Direct Telephone Calls to:

(202) 371-2600

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. § 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor	Aaron W. Buchwald	
Signature of sole or first inventor		Date 09 OCT 2001
Residence	Newport Coast, California	
Citizenship	United States	
Mailing Address	38 Via Rubino, Newport Coast, CA 92657	
Full name of second inventor	Myles Wakayama	
Signature of second inventor		Date 8 AUG 2001
Residence	Laguna Niguel, California	
Citizenship	United States	
Mailing Address	16 Windham Ln., Laguna Niguel, CA 92677	
Full name of third inventor	Michael Le	
Signature of third inventor		Date 8/7/01
Residence	Irvine, California	
Citizenship	United States	
Mailing Address	211 Sonoma Aisle, Irvine, CA 92618	

Full name of fourth inventor	JOSEPHUS Jorgen Van Engelen	
Signature of fourth inventor		Date 8/14/01
Residence	Aliso Viejo, California	
Citizenship	Netherlands	
Mailing Address	54 PLATEAU 27662 Aliso Creek Road, Apt. 4303 , Aliso Viejo, CA 92656	
Full name of fifth inventor	Xicheng Jiang	
Signature of fifth inventor		Date 8/6/01
Residence	Irvine, California	
Citizenship	People's Republic of China	
Mailing Address	1 Silent Night, Irvine, CA 92612	
Full name of sixth inventor	Hui Wang	
Signature of fifth inventor		Date 8/6/01
Residence	Irvine, California	
Citizenship	People's Republic of China	
Mailing Address	242 Sonoma Aisle, Irvine, CA 92618	

Full name of seventh inventor	Howard A. Baumer	
Signature of fifth inventor		Date 8/8/2001
Residence	Laguna Hills, CA	
Citizenship	United States	
Mailing Address	26041 El Prado, Laguna Hills, CA 92653	
Full name of eighth inventor	Avanindra Madisetti	
Signature of fifth inventor		Date Aug 8, 2001
Residence	Coto De Caza, California	
Citizenship	India UNITED STATES	
Mailing Address	5 Willow View Lane, Coto De Caza, CA 92679	

POWER OF ATTORNEY FROM ASSIGNEE

*RES
10/30/01*

Broadcom Corporation, a corporation of **California**, having a principal place of business at **16215 Alton Parkway, Irvine, California 92618-3616**, is assignee of the entire right, title and interest for the United States of America (as defined in 35 U.S.C. § 100), by reason of an Assignment to the Assignee executed on (1) 10/14/01, (2) 8/3/01, (3) 8/7/01, (4) 8/14/01, (5) 8/16/01, (6) 8/16/01, (7) 8/21/01, (8) 8/21/01 of an invention known as **Timing Recovery and Phase Tracking System and Method** (Attorney Docket No. 1875.056002), which is disclosed and claimed in a patent application of the same title by the inventors **(1) Aaron W. BUCHWALD, (2) Myles WAKAYAMA, (3) Michael LE, (4) Jurgen VAN ENGELN, (5) Xicheng JIANG, (6) Hui WANG, (7) Howard A. BAUMER and (8) Avanindra MADISETTI** (said application filed on **April 30, 2001** at the U.S. Patent and Trademark Office, having Application Number **09/844,296**).

The Assignee hereby appoint the U.S. attorneys associated with **CUSTOMER NUMBER 28393** to prosecute this application and any continuation, divisional, continuation-in-part, or reissue application thereof, and to transact all business in the U.S. Patent and Trademark Office connected therewith, such attorneys currently being: Robert Greene Sterne, Esq., Reg. No. 28,912; Edward J. Kessler, Esq., Reg. No. 25,688; Jorge A. Goldstein, Esq., Reg. No. 29,021; David K.S. Cornwell, Esq., Reg. No. 31,944; Robert W. Esmond, Esq., Reg. No. 32,893; Tracy-Gene G. Durkin, Esq., Reg. No. 32,831; Michele A. Cimbala, Esq., Reg. No. 33,851; Michael B. Ray, Esq., Reg. No. 33,997; Robert E. Sokohl, Esq., Reg. No. 36,013; Eric K. Steffe, Esq., Reg. No. 36,688; Michael Q. Lee, Esq., Reg. No. 35,239; Steven R. Ludwig, Esq., Reg. No. 36,203; John M. Covert, Esq., Reg. No. 38,759; and Linda E. Alcorn, Esq., Reg. No. 39,588. The Assignee hereby grants said attorneys the power to insert on this Power of Attorney any further identification that may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office.

Send correspondence to:

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
1100 New York Avenue, N.W.
Suite 600
Washington, D.C. 20005-3934
U.S.A.

Direct phone calls to 202-371-2600.

FOR: Broadcom Corporation
SIGNATURE: *William J. Ruehle*
BY: William J. Ruehle
TITLE: Vice President and Chief Financial Officer
DATE: October 12, 2001

Certificate Under 37 C.F.R. § 3.73(b)

Applicant/Patent Owner: BUCHWALD et al.

Application No./Patent No.: 09/844,296

Filed/Issue Date: April 30, 2001

Entitled: Timing Recovery and Phase Tracking System and Method

Broadcom Corporation, a Corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest, or
2. ☐ an assignee of an undivided part interest

in the patent application/patent identified above by virtue of either:

- A. ☒ An Assignment from the inventors of the patent application/patent identified above. The assignment was recorded in the Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s) of the patent application/patent identified above to the current assignee as shown below:

1. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.
2. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.
3. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

☐ Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (*i.e.*, the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the PTO. See MPEP 302-302.8]

The undersigned (whose title is supplied below) is empowered to act on behalf of the assignee.

Date: October 12, 2001

Name: William J. Ruehle

Title: Vice President and Chief Financial Officer

Signature: 

DO NOT FORWARD
TO ASSIGNMENT BRANCH
NOT FOR RECORDATION

ASSIGNMENT

Docket Number: **1875.0560002**

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventors: **(1) Aaron W. BUCHWALD, (2) Myles WAKAYAMA, (3) Michael LE, (4) Jurgen VAN ENGELEN, (5) Xicheng JIANG, (6) Hui WANG, (7) Howard A. BAUMER and (8) Avanindra MADISETTI**, the undersigned inventors hereby sells and assigns to **Broadcom Corporation** (the Assignee) his/her entire right, title and interest, including the right to sue for past infringement and to collect for all past, present and future damages:

check applicable box(es) ☒ for the United States of America (as defined in 35 U.S.C. § 100),
☒ and throughout the world,

(a) in the invention known as **Timing Recovery and Phase Tracking System and Method** for which application(s) for patent in the United States of America has (have) been executed by the undersigned on **(1) 04-05-01, (2) 8/9/01, (3) 8/12/01, (4) 8/14/01, (5) 8/16/01, (6) 8/16/01, (7) 8/18/2001, (8) 8/18/2001** (also known as United States Application No. **09/844,296**, filed **April 30, 2001**), in any and all applications thereon, in any and all Letters Patent(s) therefor, and

(b) in any and all applications that claim the benefit of the patent application listed above in part (a), including continuing applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and

(c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with the application(s) and any continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

The undersigned inventor(s) hereby represent(s) that he/she has full right to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict therewith.

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Appl. No. 09/844,296
Docket Number: 1875.0560002

The undersigned inventor(s) hereby grant(s) Robert Greene Sterne, Esquire, Registration No. 28,912; Edward J. Kessler, Esquire, Registration No. 25,688; Jorge A. Goldstein, Esquire, Registration No. 29,021; David K.S. Cornwell, Esquire, Registration No. 31,944; Robert W. Esmond, Esquire, Registration No. 32,893; Tracy-Gene G. Durkin, Esquire, Registration No. 32,831; Michele A. Cimbala, Esquire, Registration No. 33,851; Michael B. Ray, Esquire, Registration No. 33,997; Robert E. Sokohl, Esquire, Registration No. 36,013; Eric K. Steffe, Esquire, Registration No. 36,688; Michael Q. Lee, Esquire, Registration No. 35,239; Steven R. Ludwig, Esquire, Registration No. 36,203; John M. Covert, Esquire, Registration No. 38,759; and Linda E. Alcorn, Esquire, Registration No. 39,588; all of STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C., 1100 New York Avenue, N.W., Suite 600, Washington, D.C. 20005-3934, power to insert in this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, executed by the undersigned inventors on the date opposite his/her name.

Date: 01 OCT 2001 Signature of Inventor: Aaron BUCHWALD
(1) Aaron W. BUCHWALD

Date: 8 Aug 2001 Signature of Inventor: Myles H. WAKAYAMA
(2) Myles WAKAYAMA

Date: 8/7/01 Signature of Inventor: Michael LE
(3) Michael LE

Date: 8/14/01 Signature of Inventor: JOSEPHUS
(4) Jurgon VAN ENGELN

Date: 8/6/01 Signature of Inventor: Xicheng JIANG
(5) Xicheng JIANG

Date: 8/6/01 Signature of Inventor: Hui WANG
(6) Hui WANG

Date: 8/8/2001 Signature of Inventor: Howard A. BAUMER
(7) Howard A. BAUMER

Date: 8/8/2001 Signature of Inventor: Avanindra MADISETTI
(8) Avanindra MADISETTI

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